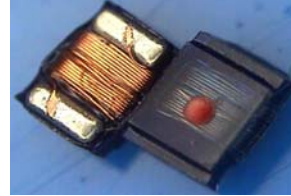

LCF0603 Series Type

SMD Inductor for Power Line

FEATURES

- Utilizing a miniaturized winding structure.
- These products provide low DC resistance and high current.
- Precision inductance tolerance is available.



APPLICATIONS

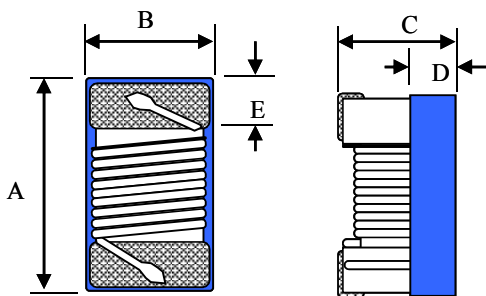
- Personal computers, Hard disk drives
- xDSL modem and Cable modem
- Digital camera and other electronic equipment

PRODUCT IDENTIFICATION

LCF 0603 - 1R0 K - T

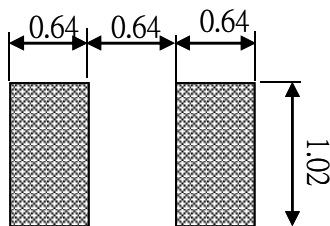
- | | |
|--------------------------|--------------------------------|
| (1) Product name | (4) Tolerance |
| (2) Dimension | J : $\pm 5\%$; K : $\pm 10\%$ |
| (3) Inductance | (6) Taping style |
| 1R0 : 1.0uH ; 100 : 10uH | T : Taping ; None : Bulk |

SHAPES AND DIMENSIONS(Unit:mm)



- A max. : 1.80 mm
B max. : 1.20 mm
C max. : 1.10 mm
D ref. : 0.45 mm
E : 0.33 ± 0.1 mm

RECOMMENDED FOOTPRINT(Unit:mm)



LCF0603-Series

SMD Inductor for Power Line

ELECTRICAL CHARACTERISTICS

| Our Product Part Number | Inductance (uH)/MHz | Inductance Tolerance | Q/MHz Min. | SRF(Min.) (MHz) | RDC (Ω)Max. | Idc Max. (mA) | Irms Typ. (mA) | Color Coding |
|-------------------------|---------------------|----------------------|------------|-----------------|----------------------|---------------|----------------|--------------|
| LCF0603-47N□-T | 0.047/7.9 | K | 12/7.9 | 2000 | 0.075 | 1800 | 1600 | White |
| LCF0603-51N□-T | 0.051/7.9 | J | 12/7.9 | 1500 | 0.075 | 1800 | 1500 | Violet |
| LCF0603-68N□-T | 0.068/7.9 | J | 12/7.9 | 1500 | 0.12 | 1800 | 1400 | Gray |
| LCF0603-72N□-T | 0.072/7.9 | K | 12/7.9 | 1500 | 0.12 | 1800 | 1400 | Brown |
| LCF0603-R10□-T | 0.10/7.9 | K | 12/7.9 | 1150 | 0.13 | 1700 | 1300 | Black |
| LCF0603-R12□-T | 0.12/7.9 | J,K | 12/7.9 | 1100 | 0.15 | 1700 | 1300 | Orange |
| LCF0603-R15□-T | 0.15/7.9 | J,K | 15/7.9 | 1050 | 0.15 | 1600 | 1200 | Brown |
| LCF0603-R18□-T | 0.18/7.9 | J,K | 15/7.9 | 950 | 0.15 | 1500 | 1100 | Green |
| LCF0603-R22□-T | 0.22/7.9 | J,K | 15/7.9 | 900 | 0.30 | 1200 | 940 | Red |
| LCF0603-R24□-T | 0.24/7.9 | J,K | 15/7.9 | 850 | 0.16 | 1460 | 1000 | Green |
| LCF0603-R27□-T | 0.27/7.9 | J,K | 15/7.9 | 835 | 0.30 | 1460 | 950 | Yellow |
| LCF0603-R33□-T | 0.33/7.9 | J,K | 15/7.9 | 725 | 0.40 | 1420 | 940 | Orange |
| LCF0603-R39□-T | 0.39/7.9 | J,K | 15/7.9 | 680 | 0.41 | 1400 | 860 | Blue |
| LCF0603-R47□-T | 0.47/7.9 | J,K | 15/7.9 | 640 | 0.43 | 1400 | 820 | Black |
| LCF0603-R56□-T | 0.56/7.9 | J,K | 15/7.9 | 630 | 0.44 | 1400 | 770 | Brown |
| LCF0603-R68□-T | 0.68/7.9 | J,K | 15/7.9 | 510 | 0.52 | 1340 | 730 | Red |
| LCF0603-R78□-T | 0.78/7.9 | J,K | 15/7.9 | 465 | 0.63 | 1300 | 730 | Orange |
| LCF0603-R82□-T | 0.82/7.9 | J,K | 15/7.9 | 460 | 0.69 | 1200 | 660 | Yellow |
| LCF0603-1R0□-T | 1.0/7.9 | J,K | 15/7.9 | 320 | 0.81 | 1100 | 630 | Green |
| LCF0603-1R2□-T | 1.2/7.9 | J,K | 15/7.9 | 270 | 0.87 | 1000 | 540 | Blue |
| LCF0603-1R5□-T | 1.5/7.9 | J,K | 15/7.9 | 230 | 0.96 | 920 | 560 | Violet |
| LCF0603-1R8□-T | 1.8/7.9 | J,K | 15/7.9 | 210 | 1.10 | 900 | 500 | Gray |
| LCF0603-2R2□-T | 2.2/7.9 | J,K | 15/7.9 | 115 | 1.20 | 740 | 500 | White |
| LCF0603-2R7□-T | 2.7/7.9 | J,K | 15/7.9 | 100 | 1.38 | 700 | 460 | Black |
| LCF0603-3R3□-T | 3.3/7.9 | J,K | 15/7.9 | 84 | 1.50 | 680 | 420 | Brown |
| LCF0603-3R9□-T | 3.9/7.9 | J,K | 15/7.9 | 75 | 1.50 | 600 | 400 | Red |
| LCF0603-4R7□-T | 4.7/7.9 | J,K | 15/7.9 | 67 | 2.10 | 580 | 350 | Orange |
| LCF0603-5R6□-T | 5.6/7.9 | J,K | 15/7.9 | 55 | 2.37 | 540 | 340 | Yellow |
| LCF0603-6R8□-T | 6.8/7.9 | J,K | 15/7.9 | 48 | 3.10 | 500 | 330 | Green |
| LCF0603-7R8□-T | 7.8/7.9 | J,K | 15/7.9 | 40 | 3.35 | 460 | 320 | Blue |
| LCF0603-8R2□-T | 8.2/7.9 | J,K | 15/7.9 | 38 | 3.50 | 440 | 300 | Violet |
| LCF0603-100□-T | 10/7.9 | J,K | 15/7.9 | 32 | 4.46 | 400 | 250 | Gray |

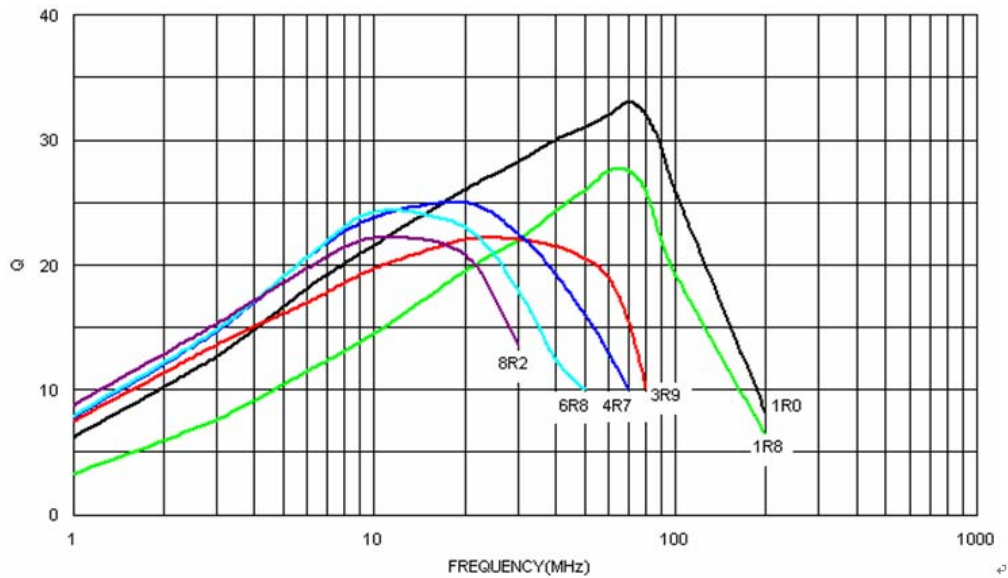
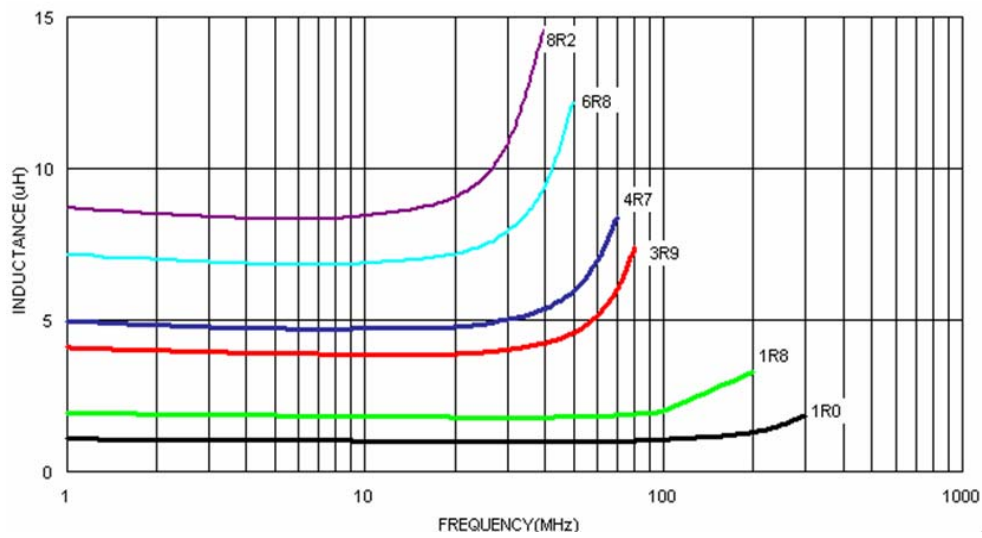
1. When ordering, please specify tolerance and packaging codes. Ex: LCF0603-1R0J-T
Tolerance : J = $\pm 5\%$, K = $\pm 10\%$
Packaging : Clear tape and reel { standard }.*
2. L , Q 、 SRF : Agilent/HP E4991A+ Agilent/HP16197A
(The electrical specification test by the smallest gap position) or HP16193A
3. Rdc : DIGITAL MILLIOHM METER Chroma 16502, or equivalent.
4. Idc for Inductance drop 10% from its value without current.
5. Operating temperature range from -25°C to 85°C .
6. Packaging quantity: 4000 pcs/reel

LCF0603 Series Type

SMD Inductor for Power Line

ELECTRICAL CHARACTERISTICS

Characteristics(L,Q vs. Frequency)



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

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